



## CACHE CONTROL SYSTEM

### Abstract of the Disclosure

5 A cache control system is disclosed for use with data storage apparatus having a movably mounted storage element, such as a magnetic or optical disk and solid-state cache memory, in which the storage element is not at operating speed when data access has not occurred during a predetermined time period, comprising means arranged to access data stored on the storage element if a read or write request cannot be satisfied via access to the cache memory and a cache replacement mechanism for transferring data between the cache memory and the storage element to maintain  
10 consistency of data therebetween. The system is characterized in that the cache replacement mechanism performs data transfers between the cache memory and the storage element only while the storage element is at operating speed after a read or write request has given rise to an access to the storage element.